Aeronautics Educator Guide			
2007 Science			
Grade Level and High School Content Expectations			
Michigan Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.
Air Engines (12-16)			
Air Engines (12-16)	MI	SCI.2.S.IA.02.13	Communicate and present findings of observations.
Rotor Motor (69-75)	MI	SCI.2.S.IP.02.13	Plan and conduct simple investigations.
Flight: Interdisciplinary Learning Activities (76-79)	MI	SCI.2.S.IP.02.13	Plan and conduct simple investigations.
Flight: Interdisciplinary Learning Activities (76-79)	MI	SCI.2.S.IA.02.14	Develop strategies and skills for information gathering and problem solving (books, internet, ask an expert, observation, investigation, technology tools).
Making Time Fly (80-86)	MI	SCI.2.S.IA.02.13	Communicate and present findings of observations.
Where is North? The Compass Can Tell Us (87-90)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.
Where is North? The Compass Can Tell Us (87-90)	MI	SCI.2.S.IP.02.13	Plan and conduct simple investigations.
Dunked Napkin (17-22)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.
Dunked Napkin (17-22)	MI	SCI.2.S.IP.02.13	Plan and conduct simple investigations.
Paper Bag Mask (23-28)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.
Paper Bag Mask (23-28)	MI	SCI.2.S.IP.02.14	Manipulate simple tools (ruler, meter stick, measuring cups, hand lens, thermometer, balance) that aid observation and data collection.
Paper Bag Mask (23-28)	MI	SCI.2.S.IP.02.15	Make accurate measurements with appropriate units (meter, centimeter) for the measurement tool.
Wind in Your Socks) (29-35)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.
Wind in Your Socks) (29-35)	MI	SCI.2.S.IP.02.14	Manipulate simple tools (ruler, meter stick, measuring cups, hand lens, thermometer, balance) that aid observation and data collection.
Wind in Your Socks) (29-35)	MI	SCI.2.S.IP.02.15	Make accurate measurements with appropriate units (meter, centimeter) for the measurement tool.
Wind in Your Socks) (29-35)	MI	SCI.2.S.IA.02.13	Communicate and present findings of observations.

Wind in Your Socks) (29-35)	MI	SCI.2.P.PM.02.13	Measure the length of objects using rulers (centimeters) and meter sticks (meters).
Sled Kite (44-51)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.
Sled Kite (44-51)	MI	SCI.2.S.IP.02.14	Manipulate simple tools (ruler, meter stick, measuring cups, hand lens, thermometer, balance) that aid observation and data collection.
Aeronautics Educator Guide			
2007 Science			
Grade Level and High School Content Expectations			
Michigan Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	MI	SCI.3.S.IP.03.11	Make purposeful observation of the natural world using the appropriate senses.
Air Engines (12-16)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
Rotor Motor (69-75)	MI	SCI.3.S.IP.03.13	Plan and conduct simple and fair investigations.
Rotor Motor (69-75)	MI	SCI.3.S.IP.03.14	Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer).
Flight: Interdisciplinary Learning Activities (76-79)	MI	SCI.3.S.IP.03.13	Plan and conduct simple and fair investigations.
Making Time Fly (80-86)	MI	SCI.3.S.IA.03.13	Communicate and present findings of observations and investigations.
Making Time Fly (80-86)	MI	SCI.3.S.RS.03.19	Describe how people have contributed to science throughout history and across cultures.
Where is North? The Compass Can Tell Us (87-90)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
Where is North? The Compass Can Tell Us (87-90)	MI	SCI.3.S.IA.03.13	Communicate and present findings of observations and investigations.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	MI	SCI.3.E.ES.03.52	Describe helpful or harmful effects of humans on the environment (garbage, habitat destruction, land management, renewable and non-renewable resources).
Dunked Napkin (17-22)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
Dunked Napkin (17-22)	MI	SCI.3.S.IA.03.13	Communicate and present findings of observations and investigations.
Paper Bag Mask (23-28)	MI	SCI.3.S.IP.03.15	Make accurate measurements with appropriate units (centimeters, meters, Celsius, grams, seconds, minutes) for the measurement tool.
Paper Bag Mask (23-28)	MI	SCI.3.S.IA.03.13	Communicate and present findings of observations and investigations.

Wind in Your Socks) (29-35)	MI	SCI.3.S.IP.03.11	Make purposeful observation of the natural world using the appropriate senses.
Wind in Your Socks) (29-35)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
Wind in Your Socks) (29-35)	MI	SCI.3.S.IA.03.13	Communicate and present findings of observations and investigations.
Sled Kite (44-51)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
Sled Kite (44-51)	MI	SCI.3.S.IP.03.14	Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer).
Aeronautics Educator Guide			
2007 Science			
Grade Level and High School Content Expectations			
Michigan Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	MI	SCI.4.S.IP.04.11	Make purposeful observation of the natural world using the appropriate senses.
Air Engines (12-16)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.
Rotor Motor (69-75)	MI	SCI.4.S.IA.04.11	Summarize information from charts and graphs to answer scientific questions.
Flight: Interdisciplinary Learning Activities (76-79)	MI	SCI.4.S.IP.04.13	Plan and conduct simple and fair investigations.
Making Time Fly (80-86)	MI	SCI.4.S.IA.04.13	Communicate and present findings of observations and investigations.
Making Time Fly (80-86)	MI	SCI.4.S.RS.04.19	Describe how people have contributed to science throughout history and across cultures.
Where is North? The Compass Can Tell Us (87-90)	MI	SCI.4.S.IA.04.11	Summarize information from charts and graphs to answer scientific questions.
Where is North? The Compass Can Tell Us (87-90)	MI	SCI.4.S.IA.04.13	Communicate and present findings of observations and investigations.
Dunked Napkin (17-22)	MI	SCI.4.S.IA.04.13	Communicate and present findings of observations and investigations.
Paper Bag Mask (23-28)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.
Paper Bag Mask (23-28)	MI	SCI.4.S.IP.04.14	Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer, graduated cylinder/beaker).
Wind in Your Socks) (29-35)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.

Wind in Your Socks) (29-35)	MI	SCI.4.S.IP.04.14	Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer, graduated cylinder/beaker).
Wind in Your Socks) (29-35)	MI	SCI.4.S.IA.04.13	Communicate and present findings of observations and investigations.
Sled Kite (44-51)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.
Sled Kite (44-51)	MI	SCI.4.S.IP.04.14	Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer, graduated cylinder/beaker).